

**BEMC Master Control Overview**  
**For July 14<sup>th</sup> Engineering Meeting**  
**From Craig Stevenson,**  
**Chief of Engineering & Broadcast Operations**

Last meeting John Luff and Willy Halla gave the commissioners background information on how the Ohio Joint Master Control (JMC) was developed and implemented. Over the past six years BEMC has focused upon upgrading, maintaining, and replacing equipment following industry standards and practices. Many of our reliability problems before the modernization project was due to a lack of preventative maintenance and replacement of equipment on a timely basis. Since the original JMC integration BEMC has invested additional funds into:

- near-line media storage,
- a logging system to monitor various stages of the JMC chain and
- upgrades to our archive storage to increase capacity
- In addition, we upgraded our affiliate production channel encoders and decoders replacing the aging MPEG2 NetVx equipment and
- upgraded our last mile connectivity to dedicated ethernet circuits where applicable.

While technology has seen advancements since our original integration, BEMC and the affiliate engineering committee was forward thinking in implementing an IP infrastructure at the NOC incorporating multicasting technology across the network. BEMC is currently working with PBS on its Phase E initiative which will provide PBS/YouTube a live stream from the local affiliate station. Currently BEMC is providing live streams for WBGU and WOSU from the same playout server designated to their on-air broadcast. We are also engaged in the Phase C initiative which provides for the uploading of files from affiliates to PBS for national file-based distribution.

We greatly appreciate the utilization of the BEMC JMC by our affiliate stations and we look forward to the advancements required to support the needs of our Ohio PBS stations in the future.